

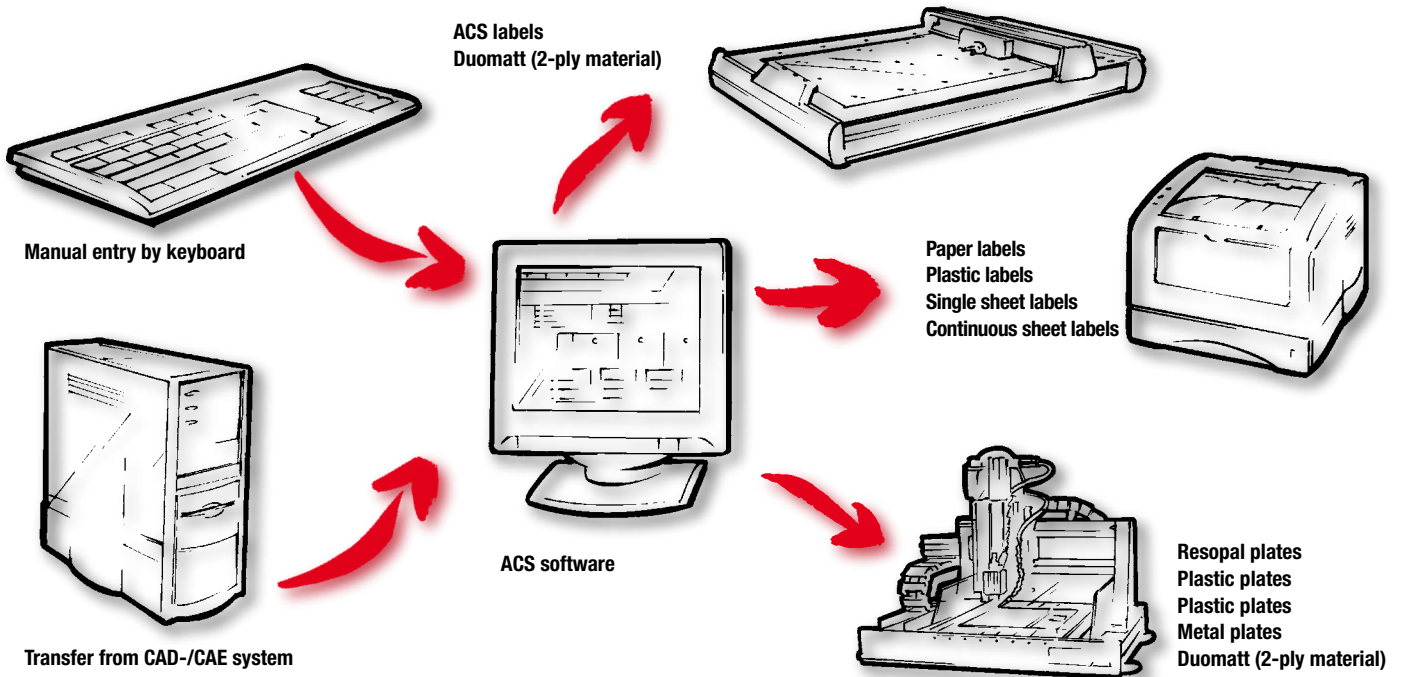
# ACS Labelling Systems

A system for universal labelling tasks



## Step by step to customised label holders

The inscription data is transmitted or entered into the ACS software, either manually or through transfer from the CAD/CAE system. In the next step, the data is prepared using the ACS software and transmitted to the desired output device (plotter, engraver, laser...). An individual label holder is then produced based on the inputted requirements.



### Special characteristics of the label materials:



– Halogen-free



– Fire classification V0



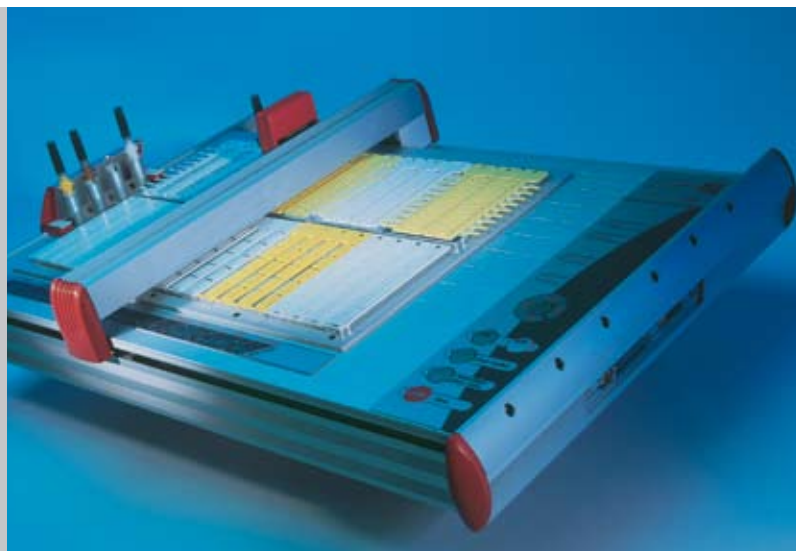
– Thermally stable up to 150°C



– Approved for railways



– Approved for automotive use



# ACS software

## Simple operation - quick results

Labels allows for problem-free communication between man and machine in industrial environments – they create safer situations and foster trust in technical processes. The **ACS labelling software** puts all colours, numbers, symbols or plain text at the user's disposal: concise self-made labels can be prepared quickly and simply. The integrated symbol database represents a significant reduction in work. It provides standardised symbols from the electric, mechanical, hydraulic and pneumatic fields. An editor function can be used to create personalised symbols as well.

## Intelligent user support

An integrated CAD interface module connects the application with the E-CAE or other planning systems. This enables quick and error-free data transfer of function texts, wiring plans, terminal or operating resources lists as well as machine workflow plans. A freely programmable CAD interface generator allows the user to customise individual interfaces to the application programs. Intelligent auxiliary tools enable the unrestricted allocation of label data to the necessary label materials. Text and colour attributes can be adjusted to individual needs through a simple mouse click. The **ACS Software** supports all Windows-ready output devices.



## Compatible operating systems

- WIN 95/98/NT (limited functionality)
- WIN 2000/XP
- WIN VISTA

## Hardware requirements

- Pentium 4
- 512 MB RAM
- CD-ROM drive



## The new functions for ACS-Gold Studio Software

### Unicode

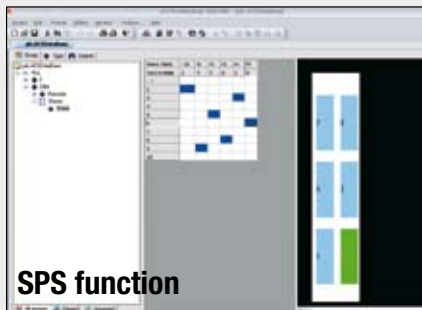
Processing and output of any existing international system, e.g. Chinese, Japanese, Cyrillic, Greek, Indian, etc. Available for operating systems starting with WIN2000. The international language pack must be activated in the control panel for this to work.



Unicode

### SPS function

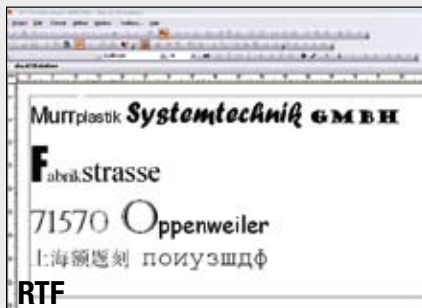
Freely definable matrix. Within the project, texts and data sets can be allocated in a targeted way to individual matrix fields. Variable and convenient inscription of insertion strips for programmable logic controller (PLC modules), e.g. S7 Siemens, XC Moeller, etc.



SPS function

### RTF (Rich Text Format)

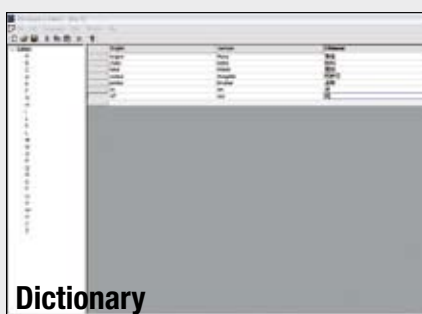
Free formatting and processing of all symbols in RTF format with available attributes, e.g. type face, font size, colour, italics etc. within a data set.



RTF

### Dictionary

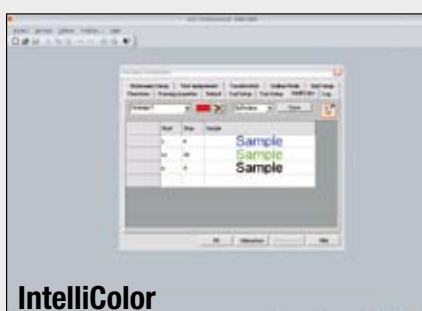
Freely definable dictionary with as many languages as desired for automatic translation of projects, including all Unicode symbols. Individual or multilingual translation on a dataset basis possible.



Dictionary

### IntelliColor:

Flexible output control for projects that can be defined using a "colour strategy". Allocation is handled using the available RGB colours and can be assigned to values, positions and symbols.



IntelliColor

# MVPS-G3 plotter systems

## Output systems

### Universal application for high-quality inscriptions

The MVPS-G3 Plotter System is the universally applicable inscription system for the most varied of labelling materials. Quick, safe and offering high-quality typefaces, the system is suitable for labelling electric, pneumatic and mechanical components. The plotter system is perfectly harmonised with the ACS labelling software. Ongoing development of the module units to account for real experience lets the plotter system simplify your daily work significantly:



#### PEN station

The pens are kept tidy and can stay in the machine permanently. The plotter pens are closed airtight in the pen station, thus preventing them from drying out.



#### Writing function

The pen station can hold standard Murrplastik KS 15/27 labels on its sides. The plotter has a function which enables the pen to perform a test on these labels. This assures quality from the first label to the last.



#### Auto-calibration

The touch of a button is all that is needed to recalibrate the machine during a job. After automatic calibration, the pen goes back to the position at which the job was interrupted and finishes the inscription.



#### High intake capacity

Up to 20 base plates can be laid into the plotter bed of the MVPS-G3. This means that the base plate supply rarely needs to be refilled during running operations.



#### Economic partial inscriptions

The MVPS-G3 also allows for the first part of label trees to be inscribed. This makes optimal and economic use of inscription materials.



### Engraving option

#### Plotter as engraving machine!

Only a few steps are needed to reconfigure the plotters of the **MVPS-G3 series into fully-functional** engraving machines with extraction functionality. Conversion is extremely simple: the spindle unit is affixed on the plotter in place of the pin unit and connected to the vacuum cleaner and a control unit for the spindle.

This makes your plotter more versatile. Long wait periods for external engraving work becomes a thing of the past, saving time and money.



- All plotters of the MVPS-G3 series can be turned into engraving machines.
- Simple conversion
- Extensive selection of engraving materials



## Output systems

### MVPS-G3-T

#### Advantages:

Plotter type: Flatbed plotter  
 Max. plotting area: 295mm x 210mm  
 Speed: max 40 cm/sec  
 Ports: Parallel (Centronics),  
 USB Level 1.1  
 Drive: two phase  
 Stepping motor  
 Pen station: max. 4 pens with  
 double sealing  
 Base plate  
 intake: 4 units

### MVPS-G3

#### Advantages:

Plotter type: Flatbed plotter  
 Max. plotting area: 450 mm x 300mm  
 Speed: max 40 cm/sec  
 Ports: Parallel (Centronics),  
 USB Level 1.1  
 Drive: two phase  
 Stepping motor  
 Pen station: max. 4 pens with  
 double sealing  
 Base plate  
 intake: 10 units

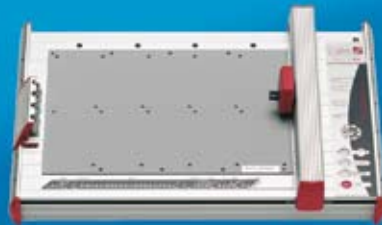
### MVPS-G3-XXL

#### Advantages:

Plotter type: Flatbed plotter  
 Max. plotting area: 800 mm x 300mm  
 Speed: max 40 cm/sec  
 Ports: Parallel (Centronics),  
 USB Level 1.1  
 Drive: two phase  
 Stepping motor  
 Pen station: max. 4 pens with  
 double sealing  
 Base plate  
 intake: 20 units



**MVPS-G3-T**



**MVPS-G3**



**MVPS-G3-XXL**

# Engraving systems

## Permanent inscription

Industrial environments with “aggressive ambient conditions” like high moisture and fluctuating temperatures are generally best served through engraved label plates. Machine engraving is the most durable form of inscription, since the labels are ground in as grooves into the label holder. This involves running the material, e.g. plastic or metal labels, through rotating grinding heads on a “milling table”.

## Murrplastik engraving materials Up to any task

One-ply materials like anodised aluminium. During engraving, the script is milled into the label plate as a groove. As part of a secondary processing process, the script contour can be coloured in and emphasised using an aluminium oxide. Two-ply and multilayer plastic or aluminium/plastic compounds. During engraving the lower layer is exposed and made visible through various colours as script or symbols.

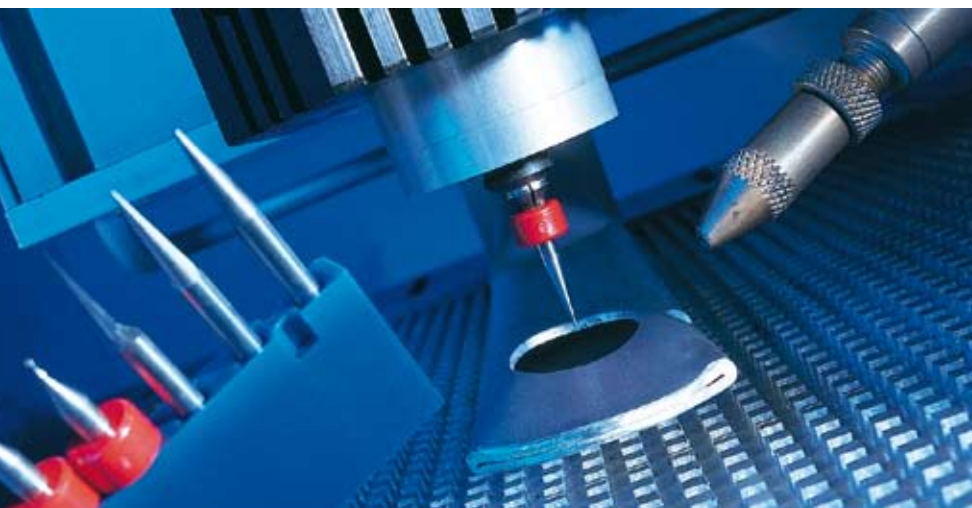


Engraving



## Overview of advantages

- **User-friendly ACS software for all engraving machines**
- **Several engravers in the programme**
- **Large stylus and mill programme**
- **Extensive selection of engraving materials: two-ply and multilayered materials**
- **Large selection of plastic and metal labels**





### Technical data CAM... :

#### CAM 100 complete system

Positioning range X / Y 330x290 mm,  
Stroke 75 mm  
Clamping surface 500x600 mm

#### CAM 200 complete system

Positioning range X/Y 540 x 500 mm,  
Stroke 75 mm  
Clamping surface 750 x 850 mm

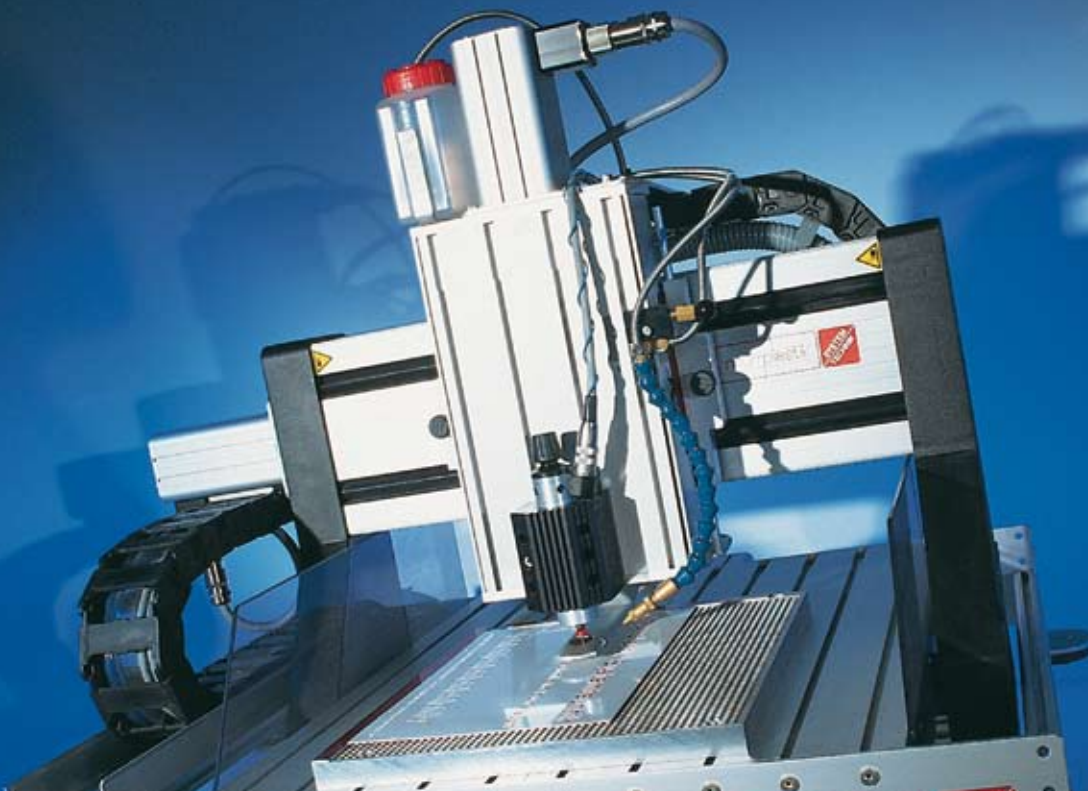
#### Mechanics

- plane-milled surfaces, face accuracy < 0.05 mm
- x/y/z-infeed free from backlash, stepped motor drive
- 3 ball screw drive 16 x 5 mm with flange bearings
- Rubber cover with Teflon coating
- Repeating accuracy +/- 1/100 mm
- 3 end and home position switches, accuracy < 1/100 mm

### Technical data GRAV 10:

#### GRAV 10 A complete

Euro power unit:	230 V, 50 - 60 Hz; Euro plug DIN 49464
Working area:	max. 305 x 205 mm
Resolution:	0.01 mm/step
Operating speed:	X and Y axis, infinitely variable to max. 3 m/min.
RPMs of spindle:	5,000 - -10,000 rpm
Interface:	Parallel (Centronics), serial (RS-232C)
Memory capacity:	2 KB (upgradeable to 2 MB)
Dimensions:	513 x 491 x 217 mm
Weight:	approx. 15.1 kg



# ST-Mark Thermal Lamination System



## Overview of advantages

- Can be operated in automatic mode
- Quick: approx. 7,500 individual labels per hour
- Long operating time: Up to 75,000 labels can be printed with just one unit of consumables
- Increased abrasion resistance through protective laminate layer
- Design for quick inscription of label mats
- User-friendly ACS software

## High output capacity, good abrasion resistance

Thermal lamination is generally used for labelling tasks where very high production output must be matched with good abrasion resistance for the inscription.

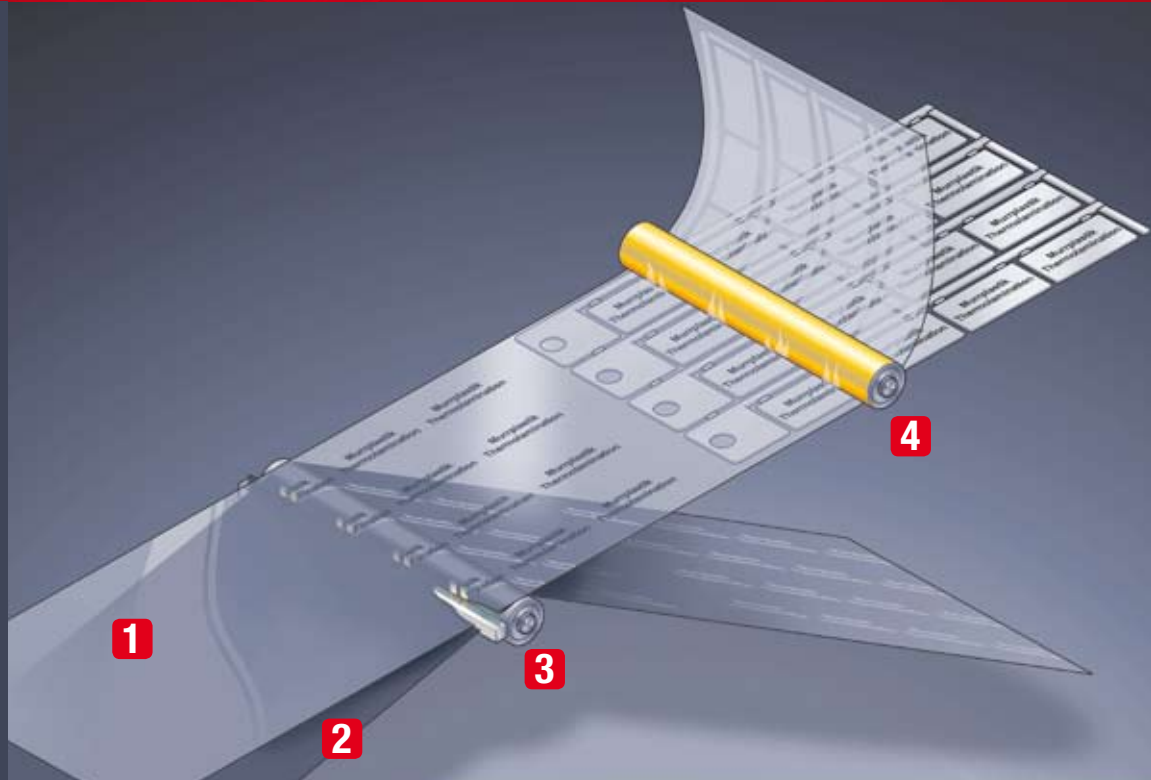
The ST Thermal Lamination System from Murrplastik sets the standard here. With a labelling output of roughly 7,500 individual labels per hour and operation in automatic mode, it is ideally prepared to handle “big jobs” for industrial production. The inscription device consists of a print module, a lamination station, a bed for label intake and a control panel.

The print module includes a thermal head with 1,280 working points at a resolution of 305 dpi. The integrated history control allows for individual dots to be individually heated as needed for the printed design, allowing for brilliant print quality. Printing speed and heating times can be adjusted to optimise the printed design. The thermal head prints from the transfer foil onto the laminate foil.



## Schematics Thermal lamination process

- 1** Laminate foil
- 2** Thermal transfer foil
- 3** Thermal transfer head
- 4** Lamination process



## The lamination process

The transfer and lamination foils are advanced line by line during the printing process. An encoder ensures a constant print repeat range regardless of any transport-related alignment changes. After the printing process, the lamination foil is then advanced until the print format is above the labels.

A regulator is used to maintain a constant pre-set temperature for the ensuing heated roller. Temperature and lamination speed can be adjusted to optimise lamination quality.

Presuming labels have been inserted and a job has been entered, and once the bed is ready, a press on the START button (on the front of the bed) retracts the bed and begins the print and lamination process. Once the process is completed, the bed is then extended out again. If no labels have been inserted, the bed can always be retraced into its interior parked position.

During automatic operation, a feeder with supply stack can be optionally connected.



# Label-related service offerings



## Custom labelling services

Murrplastik Systemtechnik supports companies with the most varied of labelling tasks. Experience has shown that outsourcing often saves companies considerable amounts of money compared with in-house handling. The reasons are clear. A company whose core competency, for example, is the design, installation and activation of control systems often has neither the finances nor time to purchase the necessary equipment and training for its employees. Not to mention the fact that labelling tasks often change on the fly.

## Quick and easy handling

Optimal inscription method is selected to meet the customer's criteria:

- Laser technology is synonymous with high operating speeds, supreme quality, short processing times and a really crisp typeface.
- Plotter technology boasts a very high configuration capacity and is suitable for virtually any material.
- Laser printing technology lends itself well to sheet labels which are suitable for virtually all fields of application. Colour printing is also possible.
- Engraving technology is used for metals and suitable plastic-coated materials. Script thickness varies based on stylus size, with excellent repeat precision.

## Overview of advantages

- Short processing times
- Quick and easy handling
- Rapid and cost-effective production
- Delivery within three working days
- No need for own capital investment
- Upon request, labels inserted into assembly sleeves, pre-assembly of holders with cable ties or packaging



## Convenient and secure data exchange

It is remarkably easy to transmit labelling data. It can simply be sent to our service centre by e-mail (dl@murrplastik.de), storage media or fax.

The data is then processed as quickly as possible by Murrplastik specialists and can be saved for two years for further projects on request.

The data format options are virtually unlimited: ASCII format, files from MS Office applications (Word, Excel) and ACS labelling software data.



## Impressive credentials

Many well-known companies from every industry imaginable take advantage of our comprehensive service palette: the automotive industry, rail traffic technology, enclosure engineering, general electrotechnology. Why? Because these companies value the extreme economy our service affords them.

## Maximum quantities in minimum time

Modern equipment means minimal time is required for large amounts of labels to be inscribed.

### Full service

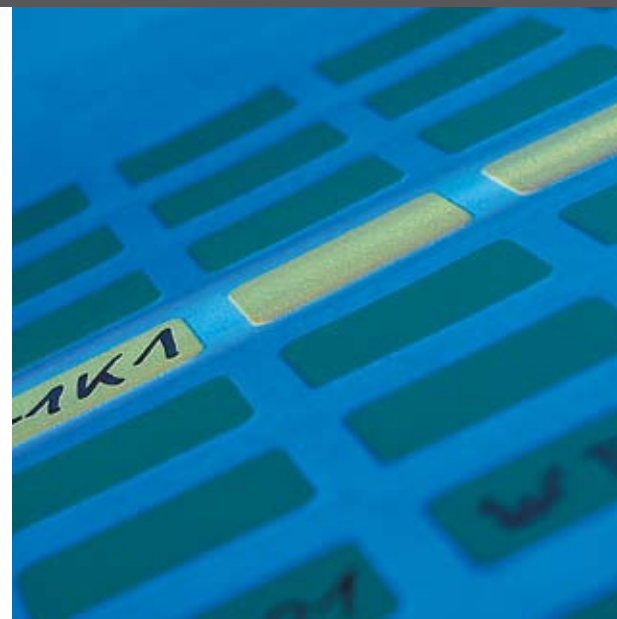
Murrplastik will supply the fully-fitted sleeves or the inscribed labels only. Just as the customer wishes.

### High laser quality ...

... for supreme inscription quality on labels. Other inscription methods such as plotting and engraving are also offered.

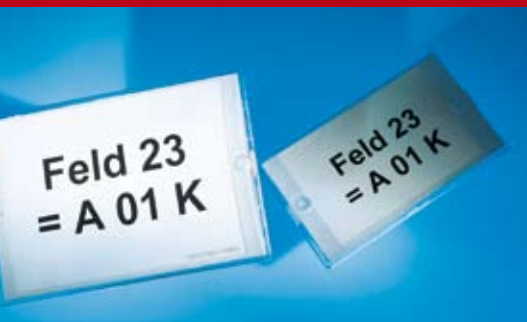
### Transfer of labelling data ...

... is possible from any CAE/CAD programs or Excel files.





**Labelling of push-buttons and signal lamps**



**System labelling**



**Control gear and equipment location labelling**



**Labelling of single wires, cables and conduits**



**Terminal block labelling**

# The world of labelling systems



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